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(Submitted on 13 Jun 2011)

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substantial improvements over currently used sequential and fixed length tests.

Jay Bartroff, Matthew Finkelman, Tze Leung Lai

Modern Sequential Analysis and its

Applications to Computerized Adaptive

After a brief review of recent advances in sequential analysis involving sequential generalized likelihood ratio tests, we discuss their use in psychometric testing and extend the asymptotic

optimality theory of these sequential tests to the case of sequentially generated experiments, of

particular interest in computerized adaptive testing. We then show how these methods can be used to design adaptive mastery tests, which are asymptotically optimal and are also shown to provide

Submission history

From: Jay Bartroff [view email] [v1] Mon, 13 Jun 2011 20:14:59 GMT (20kb,D)

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